## ABSTRACT

To provide protein drug sustained-release microparticle preparations for injection that in the production thereof, minimize the use of organic solvents and avoid the simultaneous 5 use of an organic solvent immiscible with water and an aqueous solution and that with respect to the obtained product, simultaneously have in vivo disappearing and sustained-release capabilities, slowly release the contained 10 protein drug at a substantially constant rate over a period of three days or more and realize a drug content of 5% or more, excelling in dispersibility and needle passability; and to provide a process for producing the same. The protein drug sustained-release microparticle preparations for injection 15 comprise a porous apatite or derivative thereof containing a protein drug and, provided thereon by coating or adhesion, an in vivo disappearing polymer.